

Title (en)

HEAT EXCHANGER WITH CAPILLARY STRUCTURE FOR REFRIGERATING MACHINES AND/OR HEAT PUMPS

Publication

EP 0058628 B1 19891220 (FR)

Application

EP 82450003 A 19820212

Priority

FR 8103033 A 19810213

Abstract (en)

[origin: ES8306864A1] An annular capillary structure is disclosed for tubes of heat exchangers. The capillary structure comprises a series of individual, smooth, rectilinear fibers arranged parallel to the axis of a tube. The fibers are regularly positioned in annular spaces along the inner wall of the tubes. Helical springs or a layer of spring wires urges the fibers into contact with the inner wall of the tube. According to a preferred method of making the structure, a layer of spring steel wires are coiled on a mandrel and a layer of fibers is laid longitudinally thereon. The layer pass through an extruder head and are introduced into the tubular element which has just been extruded.

IPC 1-7

F25B 39/00; **F28D 7/12**; **F28F 13/04**; **F28F 13/18**

IPC 8 full level

F25B 39/00 (2006.01); **F28D 7/12** (2006.01); **F28F 13/04** (2006.01); **F28F 13/18** (2006.01)

CPC (source: EP US)

F25B 39/00 (2013.01 - EP US); **F28D 7/12** (2013.01 - EP US); **F28F 13/04** (2013.01 - EP US); **F28F 13/187** (2013.01 - EP US)

Cited by

FR2591504A1; EP0119777A3; US4793154A

Designated contracting state (EPC)

BE DE FR GB IT LU NL

DOCDB simple family (publication)

EP 0058628 A2 19820825; **EP 0058628 A3 19830413**; **EP 0058628 B1 19891220**; DE 3280070 D1 19900125; ES 510203 A0 19830601; ES 8306864 A1 19830601; FR 2500143 A1 19820820; FR 2500143 B1 19840309; US 4448043 A 19840515

DOCDB simple family (application)

EP 82450003 A 19820212; DE 3280070 T 19820212; ES 510203 A 19820212; FR 8103033 A 19810213; US 34797082 A 19820211